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#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.				
fillit	ACTION (FORM PC 1/15A/2	220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/GB 00/02586 05/07/2000 19/08/1999						
Applicant						
HADDAZ Vakanda						
HARPAZ, Yehouda						
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant				
This International Search Report consists  [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	s report.				
Basis of the report						
	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the				
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	the international application furnished to this				
b. With regard to any nucleotide ar was carried out on the basis of the		nternational application, the international search				
ı 😑	emational application in computer readable for	m.				
l 😕 🐧	o this Authority in written form.					
furnished subsequently to	o this Authority in computer readble form.					
	bsequently furnished written sequence listing on as filed has been furnished.	does not go beyond the disclosure in the				
l <u>—</u> ''		is identical to the written sequence listing has been				
2. Certain claims were fou	ind unsearchable (See Box I).	·				
3. Unity of invention is lac	king (see Box II).					
4. With regard to the title,						
the text is approved as su	ubmitted by the applicant.					
the text has been establis	shed by this Authority to read as follows:					
5. With regard to the abstract,						
	ubmitted by the applicant.	the said appears in Pay III. The said said said				
the text has been established within one month from the	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ny as π appears in Βοχ iii. I ne applicant may, port, submit comments to this Authority.				
6. The figure of the <b>drawings</b> to be pub	lished with the abstract is Figure No.	3				
as suggested by the app		None of the figures.				
because the applicant fai						
because this figure better characterizes the invention.						

#### INTERNATIONAL SEARCH REPORT

International Application No CT/GB 00/02586

A. CLASSIFICATION OF SUBJECT MARKET IPC 7 A63F3/02 A63F3/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $IPC \ 7 \qquad A63F$ 

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C-4	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Tiolovalit to diaminito.
X	GB 2 019 226 A (ATARI)	1-5
	31 October 1979 (1979-10-31)	
	page 1, line 68 - line 100	
	page 1, line 114 -page 2, line 8	
	claims 1-5; figure 1	
X	WO 98 19758 A (GOLAD)	1-5
	14 May 1998 (1998-05-14)	
	the whole document	
X	WO 97 26057 A (TIGER ELECTRONICS)	1-5
	24 July 1997 (1997-07-24)	
	the whole document	
Α	EP 0 403 130 A (NELSON ET AL.)	1
^,	19 December 1990 (1990-12-19)	
	column 4, line 20 -column 6, line 9	
	<b></b>	
	-/ <del></del>	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed	T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search  18 September 2000	Date of mailing of the international search report $26/09/2000$
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Raybould, B

1

## INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 00/02586

tegory °	tion) DOCUMENTS COMMERCED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
,		1
	US 4 244 635 A (SASAKI ET AL.) 13 January 1981 (1981-01-13) the whole document	
		,
	•	
	•	
}		

Inter. Junal Application No PCT/GB 00/02586

	tent document in search repor	t	Publication date		atent family nember(s)	Publication date
GB	2019226	Α	31-10-1979	DE JP	2915137 A 54140631 A	25-10-1979 01-11-1979
WO	9819758	A	14-05-1998	NL AU CN EP	1004407 C 4728297 A 1235558 A 0935491 A	08-05-1998 29-05-1998 17-11-1999 18-08-1999
WO	9726057	A	24-07-1997	US AU	5743796 A 7430796 A	28-04-1998 11-08-1997
EP	403130	A	19-12-1990	AU CA GB JP ZA	5701390 A 2018955 A 2232898 A,B 3097476 A 9004601 A	20-12-1990 14-12-1990 02-01-1991 23-04-1991 24-04-1991
US	4244635	A	13-01-1981	NONE		

REC'D	0 2	OCT	2001
WIPO	)	F	PCT

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant'	s or a	gent's file reference	FOR FURTHER AG	CTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
F		plication No.	International filing date (	day/month/		Priority date (day/month/year)		
PCT/GE	300/0	2586	05/07/2000			19/08/1999		
	International Patent Classification (IPC) or national classification and IPC A63F3/02							
Applicant HARPAZ, Yehouda								
1. This and i	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>							
2. This	REPO	ORT consists of a total of	<b>6</b> sheets, including this	cover she	et.			
j t	peen a	eport is also accompanied amended and are the basi Rule 70.16 and Section 60	s for this report and/or	sheets co	ntaining rec	, claims and/or drawings which have tifications made before this Authority PCT).		
Thes	e ann	exes consist of a total of	sheets.					
3. This	eport	contains indications relati	ing to the following item	ns:				
1	$\boxtimes$	Basis of the report						
II		Priority						
III		Non-establishment of op	inion with regard to not	velty, inve	ntive step a	nd industrial applicability		
IV		Lack of unity of invention				,		
V	⊠	Reasoned statement und citations and explanation	der Article 35(2) with re as suporting such state	gard to no ment	velty, inver	ntive step or industrial applicability;		
VI	$\boxtimes$	Certain documents cited	1					
VII	$\boxtimes$	Certain defects in the inte	* *					
VIII ⊠ Certain observations on the international application								
Date of sub	Date of submission of the demand			Date of co	npletion of th	is report		
28/02/200	01			28.09.200	ŀ			
	exami	address of the international ning authority: pean Patent Office		Authorized	officer	STATE OF STA		
<u>)</u>	D-80 Tel	pean Patent Office 298 Munich +49 89 2399 - 0 Tx: 523656 e +49 89 2399 - 4465	epmu d	Squeri, N				
				Telephone	No: +49 89 2	2399 8417		



International application No. PCT/GB00/02586

l. Basis	of the	report	t
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1	<ol> <li>With regard to the elements of the international application (Replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:</li> </ol>						
	1-	10	as originally filed				
	CI	aims, No.:					
	1-8	5	as received on	28/02/2001	with letter of	24/02/2001	
	Dr	awings, sheets:					
	1/5	5-5/5	as originally filed				
2.	Wit lan	th regard to the <b>lang</b> guage in which the i	uage, all the elements marked nternational application was file	above were a d, unless othe	vailable or furnished erwise indicated unde	to this Authority in the er this item.	
	These elements were available or furnished to this Authority in the following language: , which is:				, which is:		
		the language of a t	ranslation furnished for the pur	poses of the in	nternational search (i	under Rule 23.1(b)).	
	the language of publication of the international application (under Rule 48.3(b)).				<b>(-7)</b>		
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the pur	ooses of interr	national preliminary e	examination (under Rule	
3.	Wit inte	h regard to any <b>nuc</b> l rnational preliminary	leotide and/or amino acid seq / examination was carried out o	uence disclos n the basis of	ed in the internation the sequence listing	al application, the :	
		contained in the int	ernational application in written	form.			
		filed together with t	he international application in c	omputer reada	able form.		
	☐ furnished subsequently to this Authority in written form.						
		furnished subseque	ently to this Authority in compute	er readable for	rm.		
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that listing has been furn	the information recorded in connished.	nputer readabl	le form is identical to	the written sequence	
4.	The	amendments have i	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:	•			



International application No. PCT/GB00/02586

		the drawings,	sheets:			
5.		This report has been considered to go beyon	establish ond the c	ed as if (s lisclosure	some of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):	
		(Any replacement she report.)	eet conta	ining such	amendments must be referred to under item 1 and annexed to this	
6.	Add	Iditional observations, if necessary:				
V.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Stat	tement				
	Nov	relty (N)	Yes: No:	Claims Claims	•	
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-5	
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-5	
2.		tions and explanations separate sheet				
VI.		Certain documents c	ited			
1.	Certain published documents (Rule 70.10)					
and	d/or					
2.	Non-	Ion-written disclosures (Rule 70.9)				

# VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

## VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

see separate sheet



**EXAMINATION REPORT - SEPARATE SHEET** 

Reference is made to the following documents:

D1: GB-A-2019226

D2: WO 98/19758

D3: WO 97/26057

D4: EP-A-403130

D5: WO 00/57972

### SECTION V:

- The document D2 is regarded as being the closest prior art to the subject-matter of 1. claim 1, and discloses an electronic board (cf. D2: page 1, lines 68-100 and page 1, line 114- page 2, line 8 and Fig. 3C) comprising:
  - a grid of grid points 9 on a flat surface, a.
  - where each grid point is a visible element which is capable of detecting when b. it is pressed (page 3, lines 10-11), and
  - can be illuminated in two different colours, allocated to respective players, by C. an illumination source inside or below the surface (page 3, lines 11-15 and lines 34-37); and
  - d. a character display (12E, 13E, 14E or 15E)
  - a game manager 11 made of a CPU and memory, connected electronically to e. the grid points and illumination sources such that it has complete control on which grid point is illuminated and in what colour, and it is notified whenever any of the grid points is pressed, and
  - f. a computer program (page 1, lines 12-14) which is executed by the CPU, which manages a game in which
  - when a player presses a point, the games manager changes the illumination of g. a pattern of points around this point, and
  - when all the points are switched on, the games manager, using the character h. display, declares as the winner the player of the colour of the majority of the points.

The subject-matter of claim 1 therefore differs from this known electronic board in that it discloses a game in which the colour of the points around the pressed one is changed to the player colour if they were switched off, or their colour is reversed if they were on. However, these differences define merely the rules for playing the new game, rather than the technical features of the apparatus. Therefore, these features do not limit the subject-matter of claim 1 and no examination is required for these features (Rule 67.1.iii PCT).

Consequently, the subject-matter of claim 1 of the present application has the same technical features as the device disclosed in D2 and therefore claim 1 does not meet the requirements set forth in Article 33(2) PCT.

- Document D4, considered independently from D2, is also considered to destroy the 2. novelty of claim 1, since it already discloses all the technical features of claim 1 (cf. D4: column 4, lines 20-52 and column 5, line 58- column 6, line 2).
- Moreover, also document D1 is considered to destroy the novelty of claim 1 because 3. in this claim the illumination of the grid points, which is introduced by a "can", is considered to be merely an option and, therefore, it is considered that it does not limit the subject-matter only to the electronic boards with an illumination source.
- 4. It is also drawn to the attention of the applicant that, also if claim 1 would have been amended in order to render the differentiating features technical (for example disclosing them as features of the electronic board, and not as rules for the new game), in any case it would have not been possible to find an objective technical problem which would have been overcome from the applicant with the electronic board disclosed in this new claim 1 and, consequently, the subject-matter of this claim would have not been considered as involving an inventive step (Article 33.3 PCT).
- Furthermore, the following objections about the dependent claims are raised: 5.

Claim 2

It is clear from D2 that these features are already known.

Claims 3 and 4

Document D4 already discloses an implement which is used for pressing a point and, therefore, for communicating with the board.

Claim 5

It is apparent from D2 that an hexagonal pattern of the points could not be considered as involving an inventive step (cf. D2: page 2, lines 18-25 and page 3,

lines 6-8).

#### **SECTION VI:**

Although D5 (filing date: 23.03.2000; Priority date: 29.03.99; publication date: 6. 05.10.2000) is not prior art according to R. 64.1(a) PCT, it should be noticed that it discloses subject-matter which is considered very relevant in respect of what is claimed in the present application.

#### **SECTION VII:**

7. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D5 is not mentioned in the description, nor are these documents identified therein.

#### **SECTION VIII:**

- The embodiments of the invention relating not to "FillIt" but to other games (Othello, 8. Go, Ghost, Life1, Life2, Touclt, Symmetry, Clearlt, FindThem, CountLines, Visiput, etc.) in the description do not fall within the scope of the claims, which are limited to the game "FillIt". This inconsistency between the claims and the description leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear (Article 6 PCT).
- Some of the features in the apparatus claim 1 relate to a method of using the appara-9. tus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT. In order to overcome this objection, the features relating to the computer game should have been written in the form "means for ....".

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## **CLAIMS**

1 An electronic board comprising:

a grid of grid points on a flat surface, where each grid point is a visible element which is capable of detecting when it is pressed, and can be illuminated in two different colours, allocated to respective players, by an illumination source inside or below the surface; and

a game manager made of

a CPU and memory, connected electronically to the grid points and illumination sources such that it has complete control on which grid point is illuminated and in what colour, and it is notified whenever any of the grid points is pressed, and a computer program which is executed by the CPU,

which manages a game in which

Each player in his turn presses a point which causes a pattern of points around this point to be switched on with the player colour if they were off, or reverse their colour if they were on;

the winner is the player that has more points when all the points are switched on.

- 2 A board as described in Claim 1, where only unilluminated points are legal moves.
- 3 A board as described in any preceding claim, where pressing a point is done by special implement that causes a short circuit which the board uses to identify the point that is pressed.
- 4 A board as described in any preceding claim, where the players use, hold or wear a special implement which identifies which player is playing by communicating with the board.
- 5 A board as described in any preceding claim, where the grid points are in an hexagonal pattern.